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	Application No.	Applicant(s)	
Notice of Allowability	10/052,004 Examiner	ZUPPERO ET AL. Art Unit	
	Jeffrey T. Barton	1753	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in this ap) or other appropriate communicatio RIGHTS. This application is subject 3 and MPEP 1308.	oplication. If not included n will be mailed in due course. THIS	
This communication is responsive to the amendment filed	on 6 October 2006.		
2. ☑ The allowed claim(s) is/are <u>4-6 and 27-29</u> .			
Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 1. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 4. ☐ Certified copies of the priority documents have 5. ☐ Copies of the priority documents have 6. ☐ Certified copies of the priority documents have 6. ☐ Certified copies of the priority documents have 7. ☐ Certified copies of the priority documents have have have have have have hav	e been received. e been received in Application No ccuments have been received in this of this communication to file a reply	national stage application from the	
 A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which giv CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date 	res reason(s) why the oath or declar est be submitted. eson's Patent Drawing Review (PTO	ation is deficient.	
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in the		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s) I. Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application	
2. ☐ Notice of References Cited (P10-692) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		5. ☐ Notice of Informal Patent Application6. ☐ Interview Summary (PTO-413),	
B. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da	Paper No./Mail Date 7. Examiner's Amendment/Comment	
Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Statem	ent of Reasons for Allowance	
of Biologìcal Material	9. Other		

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NOTICE OF ALLOWABILITY

1. The following is an examiner's statement of reasons for allowance:

The closest prior art is considered to be Nienhaus et al. (Surface Science, 445 (2000) 335-342) This reference teaches excitation of carriers by reactions on chemical surfaces with subsequent detection of the carriers as a current in the diode device, which was held by the Examiner to inherently possess the instantly claimed using, coupling, causing, and collecting steps, and to also inherently involve "converting the energy of the excited carriers into electrical energy", as claimed in previous versions of claim 1. However, there is no suggestion within this reference or the other prior art of record that the current produced by the carriers can be used to "energize a semiconductor device to emit electromagnetic radiation". Production of a chemicurrent on a picoampere level (e.g. Figure 4 of Nienhaus) can certainly not be considered to be an obvious or even feasible power source for any light emission device. Therefore, the claims are considered to be patentable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Jeffrey T. Barton whose telephone number is (571) 272-1307. The examiner can normally be reached on M-F 9:00AM - 5:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JTB

15 December 2006

nam nguyen

SUPERVISORY PATENT EXAMINER

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